

Scandinavian Journal of Immunology

Volume 15
Numbers 1-6/1982

Blackwell Scientific
Publications

MANAGING EDITORS

M. Harboe and J. B. Natvig, Oslo, Norway

EDITORIAL ADDRESS

Scandinavian Journal of Immunology
Institute of Immunology and Rheumatology
Fr. Qvamsgt. 1, Oslo 1, Norway

ASSISTANT EDITORS

A. Svejgaard
Copenhagen, Denmark

N. H. Axelsen
Copenhagen, Denmark

O. Mäkelä
Helsinki, Finland

P. Häyry
Helsinki, Finland

E. Möller
Stockholm, Sweden

H. Wigzell
Uppsala, Sweden

P. Perlmann
Stockholm, Sweden

EDITORIAL BOARD

G. L. Ada, Canberra
L. Andersson, Helsinki
R. Arnon, Rehovot
F. H. Bach, Madison
J. F. Bach, Paris
P. Brandtzaeg, Oslo
B. D. Brondz, Moscow
D. Capra, Dallas
J. C. Cerottini, Lausanne
A. Coutinho, Umeå
K. Eichmann, Freiburg
C. P. Engelfriet, Amsterdam
M. Fougereau, Marseille

H. H. Fudenberg, Charleston
J. Gergely, Budapest
K. Hannestad, Tromsø
L. A. Hanson, Gothenburg
G. Holm, Stockholm
S. G. O. Johansson, Uppsala
G. Klein, Stockholm
J. Klein, Tübingen
H. G. Kunkel, New York
P. J. Lachmann, London
F. Melchers, Basle
O. J. Mellbye, Oslo
J. F. A. P. Miller, Melbourne

H. Müller-Eberhard, La Jolla
E. Norrby, Stockholm
B. Rubin, Marseilles
J. Sterzl, Prague
S.-E. Svehag, Odense
T. Tada, Tokyo
E. Thorsby, Oslo
G. Torrigiani, Geneva
M. W. Turner, London
O. Tønder, Bergen
R. van Furth, Leiden
R. Winchester, New York
R. M. Zinkernagel, Canberra

Contents

Volume 15, No. 1, January 1982

Purification and Characterization of a Nuclear SS-B Antigen. <i>A.-M. Teppo, M. Gripenberg, P. Kurki, K. Baklien, T. Helve & O. Wegelius</i>	1
Mechanisms of Altered in Vitro Antibody Response in the Rat by a Small Synthetic Polymer. <i>J. A. Teodorczyk-Injeyan, L. Makowka, R. E. Falk & J. A. Falk</i>	9
Epstein-Barr Virus Increases the Proliferative Response and the Generation of Suppressor and Cytotoxic T-Cell Functions in Autologous Mixed Lymphocyte Reaction. <i>R. Palacios</i>	17
Hydrocortisone Abrogates Proliferation of T Cells in Autologous Mixed Lymphocyte Reaction by Rendering the Interleukin-2 Producer T Cells Unresponsive to Interleukin-1 and Unable to Synthesize the T-Cell Growth Factor. <i>R. Palacios & I. Sugawara</i>	25
Studies on the Defect in Cell-Mediated Immunity in Lepromatous Leprosy using HLA-D-Identical Siblings. Absence of Circulating Suppressor Cells and Evidence that the Defect Is in the T-Lymphocyte, Rather than the Monocyte, Population. <i>G. L. Stoner, R. N. Mshana, J. Touw & A. Belehu</i>	33
Rabbit Spleen B Lymphocytes as Helper Cells in Lymphocyte Activation by Concanavalin A and Phytohaemagglutinin. <i>J.-M. Cavaillon, T. N. S. Udupa, C.-T. Chou, B. Cinader & S. Dubiski</i>	49
Studies on Human Epidermal Langerhans Cells. IV. HLA-D Restriction of Langerhans Cell-Dependent Antigen Activation of T Lymphocytes. <i>L. R. Braathen & E. Thorsby</i>	55
A Solid-Phase Radioimmunoassay for Anti-Histone Antibodies in Human Sera: Comparison with an Immunofluorescence Assay. <i>R. L. Rubin, F. G. Joslin & E. M. Tan</i>	63
V and C Genes in Creating Antibodies Directed to $\alpha(1\rightarrow3)$ -linked D-Glucosyls in Dextran. III. Frequency of $\alpha(1\rightarrow3)$ -Responsive, Primary B Precursors in <i>aI</i> High- and <i>b</i> Low-Responder Allotransplants. <i>C. Bell</i>	71
Role of Zn^{2+} and Other Divalent Metal Ions in Human Lymphokine Production in Vitro. <i>K. Bendtzen & L. Mayland</i>	81
Concanavalin A Induces Suppressor Cell Activity in Both T_H and T_{non-H} Cells: Most of the Suppressor Cells Do Not Carry HLA-DR Antigens. <i>J. H. Dobloug, Ø. Forre, C. Chattopadhyay & J. B. Natvig</i>	87
Effects of Thymosin and Evidence of Monocyte Suppression of Both T- and B-Cell Functions in Two Cases of 'Common Variable Immunodeficiency'. <i>M. P. Arala-Chaves, J. H. Korn, G. M. P. Galbraith, M. T. Porto, C. L. Smith & H. H. Fudenberg</i>	97
SHORT PAPER. Effects of nu Gene on the Numbers of Mast Cells in Lymph Nodes. <i>K. Wlodarski, K. Morrison & N. R. Rose</i>	105
SHORT PAPER. Modulation of the Immune Response by Plasma Protease Inhibitors. I. Alpha ₂ -Macroglobulin and Alpha ₁ -Antitrypsin Inhibit Natural Killing and Antibody-dependent Cell-mediated Cytotoxicity. <i>E. W. Ades, A. Hinson, C. Chapuis-Cellier & P. Arnaud</i>	109
SHORT PAPER. Modulation of the Immune Response by Plasma Protease Inhibitors. II. Alpha ₂ -Macroglobulin Subunits Inhibit Natural Killer Cell Cytotoxicity and Antibody-dependent Cell-mediated Cytotoxicity. <i>P. Gravagna, E. Gianazza, P. Arnaud, M. Neels & E. W. Ades</i>	115
Abstracts of the Twelfth Annual Meeting of the Scandinavian Society for Immunology	119
Announcement	139

Volume 15, No. 2, February 1982

Induction of E-Rosette-Promoting Factor in Human Plasma by Levamisole: An Assessment in a Patient with Partial DiGeorge Syndrome. <i>H. Seki, T. Yokoi, M. Kubo, N. Moriya, T. Miyawaki, T. Nagaoki, M. Miura & N. Taniguchi</i>	141
Umbilical-Cord-Blood-Derived Suppressor Cells of the Human Natural Killer Cell Activity Are Inhibited by Interferon. <i>J. Tarkkanen & E. Saksela</i>	149
Natural Killer Cells Do Not Belong to the Recirculating Lymphocyte Population. <i>M. Zöller, D. Bellgrau, I. Axberg & H. Wigzell</i>	159
The Influence of Antigen Density and a Comparison of IgG and IgM Antibodies in the Anti-Complementary Modulation of Lymphocytic Surface Immunoglobulin. <i>J. Gordon, V. A. Anderson, D. S. F. Robinson & G. T. Stevenson</i>	169
Purification of the Synaptic Membrane Glycoprotein D2 from Rat Brain. <i>S. Rasmussen, J. Ramlau, N. H. Axelsen & E. Bock</i>	179
The Lipid Nature of a Tumour-Associated Autoantigen from a Chemically Induced Rat Hepatoma. <i>P. Lando, K. Berzins & P. Perlmann</i>	187
Decreased Syngeneic Mixed Lymphocyte Reaction in Autoimmune Susceptible Mice. <i>J. T. Hom & N. Talal</i>	195
Endocytosis of Agarose in Mouse Peritoneal Macrophages in Vitro. <i>E. Johnson, R. Seljelid, J. Bøgwald, O. Larm & E. Scholander</i>	205
Enhancement of Human B Lymphocyte Differentiation in Vitro by Thyroid Hormone. <i>T. Paavonen</i>	211
SHORT PAPER. Induction of a Metallothionein-like Protein in Human Lymphocytes. <i>J. Alexander, Ø. Frøre, J. Aaseth, J. Dobloug & S. Øvrebo</i>	217
SHORT PAPER. Detection of T-Lymphocyte Subpopulations in the Peripheral Blood and the Synovium of Patients with Rheumatoid Arthritis and Juvenile Rheumatoid Arthritis Using Monoclonal Antibodies. <i>Ø. Forre, J. Thoen, J. H. Dobloug, T. Egeland, T. K. Kvien, O. J. Mellbye & J. B. Natvig</i>	221
SHORT PAPER. Augmented Numbers of HLA-DR-Positive T Lymphocytes in the Synovial Fluid and Synovial Tissue of Patients with Rheumatoid Arthritis and Juvenile Rheumatoid Arthritis. In-Vivo-Activated T Lymphocytes are Potent Stimulators in the Mixed Lymphocyte Reaction. <i>Ø. Forre, J. H. Dobloug & J. B. Natvig</i>	227
SHORT PAPER. Interleukin-2 and Serum Thymic Factor Enable Autologous Rosette-forming T Lymphocytes to Generate Helper and Cytotoxic Functions. <i>I. Sugawara & R. Palacios</i>	233

Volume 15, No. 3, March 1982

Immunological Tolerance in the Chicken. III. Partial Physicochemical Characterization of Two Suppressive Fractions from Serum of Chickens Tolerant to Bovine Serum Albumin. <i>M. L. Rodrick, E. L. Morgan & C. H. Tempelis</i>	239
Polyclonal Activation of Human Peripheral Blood B Lymphocytes by Formaldehyde-Fixed <i>Salmonella paratyphi</i> B. II. Heterogeneity of B Lymphocytes. <i>W.-Y. Chen, H. H. Fudenberg & E. W. Ades</i>	249
Cytotoxicity of Tumour-Bearer Serum to D23 Hepatoma Cells Derived from Solid Tumours, Ascites or in Vitro Cultures. <i>P. Lando, J. Gabriel, K. Berzins & P. Perlmann</i>	259
Monoclonal Human B Lymphoma Cells Respond by DNA Synthesis to Anti-Immunoglobulins in the Presence of the Tumour Promoter TPA. <i>T. Godal, Aa. Henriksen, E. Ruud & T. Michaelsen</i>	267
Staphylococcal Protein A and Human IgG Subclasses and Allotypes. <i>E. van Loghem, B. Frangione, B. Recht & E. C. Franklin</i>	275

Impaired Proliferative Response to B-Lymphocyte Activators in Common Variable Immunodeficiency. <i>S. Cunningham-Rundles, C. Cunningham-Rundles, D. I. Ma, F. P. Siegal, S. Gupta, E. M. Smithwick, C. Kosloff & R. A. Good</i>	279
Protein A Reactivity of Lymphocytes from Some Patients with Chronic Lymphocytic Leukaemia Mediated by an Interaction with the F(ab') ₂ Region of Surface Immunoglobulin. <i>S. Romagnani, M. G. Giudizi, R. Biagiotti, F. Almerigogna, G. F. Del Prete E. Maggi & M. Ricci</i>	287
The Cytotoxic Effect of Mouse Macrophages Stimulated in Vitro by a β -1,3-D-Glucan from Yeast Cell Walls. <i>J. Bögwald, E. Johnson & R. Seljelid</i>	297
Pigment Mutations in the Mouse Which Also Affect Lysosomal Functions Lead to Suppressed Natural Killer Cell Activity. <i>A. Örn, E. M. Håkansson, M. Gidlund, U. Ramstedt, I. Axberg, H. Wigzell & L.-G. Lundin</i>	305
Soluble Cytostatic Factor(s) Released from Human Monocytes. I. Production and Effect on Normal and Transformed Human Target Cells. <i>J. Hammerström</i>	311
Interference by Rheumatoid Factor and Clq in the Detection of IgG Complexes: Studies of Model Systems by ELISA. <i>O. Wager & P. Lindström</i>	319
Volume 15, No. 4, April 1982	
Enhancement of in Vitro Immune Responses of Murine Peyer's Patch Cultures by Concanavalin A, Muramyl Dipeptide and Lipopolysaccharide. <i>H. Kiyono, J. R. McGhee, J. F. Kearney & S. M. Michalek</i>	329
Serodiagnosis of Syphilis by an Enzyme-Linked Immunosorbent Assay for IgG Antibodies Against Reiter Treponeme Flagellum. <i>N. Strandberg Pedersen, C. Sand Petersen, M. Vejtorp & N. H. Axelsen</i>	341
Modulation of Human B-Lymphocyte Receptors for IgG Does Not Affect HLA-DR Antigens. <i>M. Colombatti & P. R. Sékaly</i>	349
Chain Structure of Cobra Venom Factor from <i>Naja naja</i> and <i>Naja haje</i> venom. <i>I. von Zabern, H. Przyklenk & W. Vogt</i>	357
Role of IgM in Human Monocyte-Mediated Target Cell Destruction in Vitro. <i>C. Öhlander & P. Perlman</i>	336
Intestinal Glycoprotein Activates the Alternative Complement Pathway by Reacting with Factor H. <i>R. Winsnes & P. J. Lachmann</i>	371
An Analysis of the Lymphocytotoxic Activity Found in Sera from Patients with Hypogammaglobulinemia. <i>S. MacDonald, A. D. B. Webster & T. A. E. Platts-Mills</i>	379
Reduced Natural Killer Cell Activity of Lymphocytes from Patients with Werner's Syndrome and Recovery of Its Activity by Purified Human Leucocyte Interferon. <i>M. Goto, K. Tanimoto, Y. Horiuchi & T. Kuwata</i>	389
Leucocyte-Associated Plasma Proteins. I. Plasma Proteins in Supernatants and Cell Pellets during Successive Washings of Human Blood Cells. <i>M. M. Andersen</i>	399
Regulation of IgG-IgM Interplay by Antibody Specificity in Human K-Cell Mediated Cytotoxicity. <i>C. Öhlander, H. Perlmann & P. Perlmann</i>	409
Intrathecal Immune Responses in Mumps Meningitis Patients. <i>M. Reunanen, R. Salonen & A. Salmi</i>	419
Announcement	427

Volume 15, No. 5, May 1982

Role of the Popliteal Lymph Node in Infection with <i>Mycobacterium marinum</i> of the Hind Footpad of the Mouse, and Source of the Cells that Characterize the Process. <i>N. Mor, I. Lutsky & L. Levy</i>	429
A Synergistic Polyclonal Response to Dextran Sulphate and Lipopolysaccharide. Immunoglobulin Secretion and Cell Requirements. <i>S. Bergstedt-Lindqvist, C. Fernandez & E. Severinson</i>	439
Inhibition of T-Cell Activity by Cyclosporin A. <i>L. Andrus & K. J. Lafferty</i>	449
Isolation and Characterization of TR-c, an Antigen of the Reiter Treponeme Precipitating with Antibodies in Syphilis. <i>C. Sand Petersen, N. Strandberg Pedersen & N. H. Axelsen</i>	459
The Use of Lysostaphin in in Vitro Assays of Phagocyte Function: Adherence to and Penetration into Granulocytes. <i>P. J. van den Broek, F. A. M. Dehue, P. C. J. Leijh, M. Th. van den Barselaar & R. van Furth</i>	467
Mitogenic Responses to Lipopolysaccharide by B Lymphocytes from Patients with Systemic Lupus Erythematosus. <i>T. Abe, T. Toguchi, T. Takeuchi, M. Kiyotaki & M. Homma</i>	475
Natural and Antibody-Dependent Cellular Cytotoxicity in Tumour-Adherent T Lymphocytes: Expression of Fc Receptors and of a Human T-Subgroup-Specific Antigen. <i>H. E. Feucht, M. R. Hadam, J. Lohmeyer, F. Frank, E. P. Rieber & G. Riethmüller</i>	483
Autologous Mixed Lymphocyte Reaction in Man. III. Regulation of Autologous MLR by Theophylline-Resistant and -Sensitive Human T-Lymphocyte Subpopulations. <i>N. K. Damle & S. Gupta</i>	493
Relationships between HLA-DR-expressing Cells and T Lymphocytes of Different Subsets in Rheumatoid Synovial Tissue. <i>L. Klareskog, U. Forsum, A. Wigren & H. Wigzell</i>	501
SHORT PAPER. Murine Synovial Intima Contains I-A-, I-E/C-Positive Bone-Marrow-Derived Cells. <i>L. Klareskog, U. Forsum & H. Wigzell</i>	509
SHORT PAPER. One Third of Murine Splenic T Cells Are Cytotoxic Precursors Induced to Grow by Leucoagglutinin and TCGF. <i>E.-L. Larsson</i>	515
SHORT PAPER. Detection of Antigen-specific Cellular Immune Response by the in Vitro Production of T-Cell Growth Factor. <i>J. Ilonen & A. Salmi</i>	521
SHORT PAPER. Unicellular or Multicellular Origin of Human T-Lymphocyte Colonies in Soft Agar? <i>K. Lindahl-Kiessling & I. Karlberg</i>	525

Volume 15, No. 6, June 1982

Report of a Meeting on the Immunity of Mucous Membranes held in Geneva on 16-21 November 1981	531
Expression of the H-2 Antigenic Complex on Murine Haematopoietic Stem Cells. <i>J. H. Fitchen, E. F. Hays & S. Ferrone</i>	547
The Generation of 'Cytotoxic' Macrophages in Mice during Infection with Influenza A or Sendai Virus. <i>N. K. Mak, K. N. Leung & G. L. Ada</i>	553
Lymphokine Production in T-Lymphocyte Subsets Defined by Active E-Rosette Formation. <i>D. S. Robbins, E. L. Belden, P. M. Hoffman, H. H. Fudenberg & A. J. Strelkauskas</i>	563
The Effect of Anti-Ia Antibody on Immunoglobulin-secreting Cells from Healthy Individuals and Myeloma Patients. <i>K. Nagai, T. Nagai, K. Takatsuki & H. Uchino</i>	567
Receptors for the Third Complement Component on a Proportion of Large Granular Lymphocytes from Human Peripheral Blood. <i>A. Nocera, A. Cadoni, A. Zicca, R. Di Primo, A. Leprini & M. Ferrarini</i>	573

Release of Mediators from Purified Rat Mast Cells during Phagocytosis. <i>B. M. Czarnetzki</i>	581
The effect of C4 on C1 Binding and Activation <i>I. Malmheden Yman, G. Ståhlenheim & J. Sjöquist</i>	587
In Vitro Production of Monoclonal and Polyclonal Immunoglobulins by Peripheral Blood Mononuclear Cells in Human Plasma Cell Myeloma. <i>D. Preest, G. Holm, H. Mellstedt & D. Pettersson</i>	595
Fc γ -like Determinants on Immunoglobulin Variable Regions: Identification by Staphylococcal Protein <i>A. S. Biguzzi</i>	605
Characterization of an Lyt-1 ⁺ Cytolytic T-Cell Clone Specific for a Polymorphic Domain of the I-A* Molecule. <i>A. Pierres, A.-M. Schmitt-Verhulst, M. Buferne, P. Goldstein & M. Pierres</i>	619



